1

What is special about academic English?

A Everyday words and academic uses

Many words in academic English are the same as everyday vocabulary, but they are often used with a slightly different meaning, which may be specialised.

everyday use	meaning	academic use	meaning
Standards of discipline in schools have declined.	ability to control yourself or other people	Nanotechnology is a relatively new discipline .	area of study
Underline your family name on the form.	draw a line under it	The research underlines the value of case studies.	gives emphasis to
The lake was frozen solid .	not liquid or gas	We have no solid evidence that radiation has caused the problem.	certain or safe; of a good standard

B Vocabulary and academic style

In writing, academics use many neutral expressions. They also use rather formal expressions which are not common in everyday language. Knowing whether an expression is formal or just neutral is important.

neutral	more formal	neutral	more formal
in short, briefly, basically	in sum, to sum up, fundamentally	try	attempt
only	sole(ly)	mainly, mostly	primarily
almost, more or less	virtually	typical of	characteristic of

However, very informal vocabulary may be used in *spoken* academic styles in classes and lectures. Learn to understand informal language when you hear it but be careful not to use it in essays and written assignments. Here are some examples of teachers using informal language.

'OK. **Have a shot at** doing task number 3.' [more formal: *Try/Attempt to do ...*]

'There's no way schools can be held responsible for failures of government policy.' [more formal: *Schools cannot in any way be held ...*]

Academic language tries to be clear and precise, so it is important to keep a vocabulary notebook (see page 8) and learn the differences between similar words, as well as typical word combinations (underlined here).

The building is a **prime** example of 1920s architecture. [excellent in quality or value]

The group's **primary** concern is to protect human rights. [main; most important]

C Noun phrases

Academic language often uses complex noun phrases. For example, instead of saying *Radiation was accidentally released over a 24-hour period, damaging a wide area for a long time*, an academic might say *The accidental release of radiation over a 24-hour period caused widespread long-term damage.* It is therefore important to learn the different forms of a word, for example:

noun	verb	adjective(s)	adverb(s)
accident		accidental	accidentally
quantity/quantification	quantify	quantitative/quantifiable	quantitatively/quantifiably

Finally, be aware of 'chunks' or phrases which occur frequently, and learn them as whole units. Examples: in terms of, in addition to, for the most part, in the case of, etc. (See Unit 16).

Language help

Using complex noun phrases improves your writing style and can contribute to higher grades in essays and assignments.

10



Exercises

1.1 The words in the box each have an everyday use and an academic use. Complete each pair of sentences using the same word in the correct form.

	generate	turn	solid	confirm	identify	underline	character	pose	nature	focus
1			•	-		is in front of lity in the re		us hous	se.	
2	The photo	ograph	i was u	seless. It v	vas blurre	ed and out o	of		ıg vears.	
3	I went on	line an	nd		my flight	reservation at animal-lo	•			
4	The powe	r plan	t	e	lectricity	for the who	le region.			
5	The murd	erer w	as		from fing	al of debate gerprints dis	covered at	the sce	ne.	
6						y Id whisper s				
	Let us nov	Ν		to the	subject of	social netw	orking.			
1						when he's re little resea				
8	•					mperature nd its conclu			nable.	

1.2 Rewrite the underlined words using more formal words and phrases from B opposite.

- 1 The book is mainly concerned with the problem of policing the internet.
- 2 <u>Almost</u> every school in the county had reported problems with the new system.
- 3 The work of the Institute is not only devoted to cancer research.
- 4 <u>Basically</u>, we believe we have demonstrated a significant link between the two events.
- 5 Several research teams have <u>had a shot at solving</u> the problem, without success.
- 6 The reaction is <u>typical of</u> the way large corporations keep control of their markets.

1.3 Read the text and answer the questions.

- 1 Underline two verbs followed by adverbs which it would be useful to learn as pairs.
- 2 Underline two adverbs next to each other which it would be useful to learn together.
- 3 What are the noun forms of the verbs produce, rely, discover and claim?
- 4 A novel is a kind of book, but what does the adjective *novel* mean here?

The production of plastics depends heavily on petroleum, but a novel way of making plastics out of sugar could reduce our reliance on oil. The discovery that a chemical in sugar can be converted relatively easily into a substance similar in structure to the material obtained from petroleum has led to the claim that plastics could soon be produced cheaply by the new method.

1.4 Complete the second sentence using a noun phrase. Use a dictionary if necessary.

1	People who investigated the problem biologically came to no firm conclusions.
	Biological investigations of the problem came to no firm conclusions.
2	When they developed antibiotics, it revolutionised medicine.
	Thein medicine.
3	They solved the problem by altering the deck of the bridge.
	The to the problem was an to the deck of the bridge
4	Exploring Antarctica has always been especially challenging.
	Theof Antarctica has always presented special

Over to you

Look at an academic text you have read recently and underline pairs of words which you think it would be useful to learn and remember together.

2

Key nouns

This unit focuses on some important nouns in academic English. See also Units 10, 11 and 15.

A General nouns referring to ideas

She wrote an article on the **subject** of class. [thing which is being discussed, considered or studied]

The **theme** of the poem is emigration. [main subject of a talk, book, etc.]

The students were given a list of essay **topics**. [specific subjects that someone discusses or writes about]

There was a lively debate on the **issue** of globalisation. [important subject or problem]

Political **theory** is a popular undergraduate subject. Einstein's **theory** of gravitation has been questioned recently. [statement of the rules on which a subject of study is based or, more generally, an opinion or explanation]

The **model** of climate change presented in the Stern Review seems to be becoming a reality. [description of a system or process which explains how it works]

The book is called 'The **Nature** of Intelligence'. [basic character of something]

Human behaviour is based on the **principle** of least effort. [basic idea or rule that explains how something happens or works]

B More specific nouns connected with ideas and phenomena

Repetition is an important **aspect** of speech development in children. [one individual part of a situation, problem, subject, etc.]

Automatic backup is a **feature** of the new software. [a typical quality that something has]

The political motives for the government's actions are beyond the **scope** of this essay. [range of a subject covered by a book, discussion, class, etc.]

The study revealed a **pattern** of results. [a regularly repeated arrangement]

During 2005, the **number** of violent attacks increased to an alarming degree. [amount or level]

Nouns referring to ways of thinking, processes and activities

Read these titles of academic books and articles. Note the key nouns and their prepositions.

Micro-organisms in water: their **significance**¹ and **identification**²

Renewable energy: a critical assessment³ of recent research

The Case⁴ for Change: Rethinking Teacher Education. Towards a New Approach⁵

Perspectives⁶ on Ecological Management: A study of public **awareness**⁷ of river pollution Citizens' **Views** on Healthcare Systems in the European Union

Epidemiological research into asthma and allergic disease: establishing a standardised **methodology**⁸

¹ importance ² ability to establish the identity of something ³ judgement of the amount, quality or importance of something ⁴ arguments and facts in support of or against something ⁵ way of considering something ⁶ particular ways of considering something ⁷ understanding based on experience or information ⁸ set of methods used when studying something

Common Mistake

Research is uncountable. Don't say: They carried out some useful researches. To make it plural, say research studies or pieces of research. Research is followed by on or into not of. Say, for example, do research on/into memory loss.



Exercises

	Exercises
2.1	Look at the nouns in A and B opposite and note the prepositions that are associated with them. Answer the questions.
	 Which preposition often follows the nouns in both A and B? Which preposition is often used before the nouns in A? Which preposition would fill this gap – The postwar period is the scope of this paper and will be dealt with in a later study.
2.2	Choose the best noun to complete each sentence.
	 Environmental topics / issues / principles should be at the top of today's political agenda. In the exam students had to choose three from a choice of ten essay subjects / theories / topics. There are still people who are reluctant to accept Darwin's nature / topic / theory of evolution. The professor decided to take moral courage as the issue / theme / model for his inaugural lecture. Economists used a model / principle / topic of human behaviour to help them forecast likely inflation trends. The Peter Issue / Principle / Theme states that members of a hierarchical group will usually end up being promoted to the point at which they become incompetent.
2.3	Match the beginnings and endings of the sentences.
	1 The study revealed a regular 2 The research focuses on one particular 3 The writer makes a powerful 4 The writers take an original 5 Until recently there was little 6 I think you should broaden the 7 To date, there has been little research 8 There are many important a scope of your research. b awareness of the problem. c issues facing the world today. d into the environmental effects of nanoparticles. e approach to their theme. f aspect of modern society. g pattern of changes in temperature. h case for restructuring parliament.
2.4	Correct the mistakes in the underlined phrases.
	¹ Recent researches that were carried out for a report by a government agency showed that local police can play an important role in crime prevention. The report makes ² a strong case of boosting the numbers of community police officers although it warns against increasing police presence on the streets to an alarming degree. ³ Its methodological was based on a range of interviews asking members of the public for ⁴ their views in how best to prevent crime. Unfortunately, how to implement this recommendation was ⁵ out of the

2.5 These book titles have been rephrased to sound more academic. Complete them using words from the box.

	assessment features identification nature patterns perspectives principles significance
1	What democracy is really like – The of Democracy
2	Why dreams are important – The of Dreams
3	What do we see in glaciated landscapes? – The of Glaciated Landscapes
4	How to evaluate language skills – The of Language Skills
5	Ways in which human behaviour repeats itself – of Human Behaviour
6	How to recognise different species of bees – The of Bees
7	Thinking about taxation from different angle – on Modern Taxation
8	How to make sure that a business is successful – The

scope of the study but at least it serves a useful purpose in ⁶raising awareness to the issue.

3

Key verbs

A Key verbs for structuring academic assignments

Look at these tasks which students have been given.

Discuss some of the problems **involved**¹ in **investigating** attitudes to diet and health. Write a critical review of an investigation you have read about, or describe an investigation you yourself could **conduct**². **Consider** the advantages and disadvantages of different methods.

Starting from rest, an aircraft accelerates to its take-off speed of 60 ms⁻¹ in a distance of 900 metres. Illustrate³ this with a velocity-time graph. Assuming⁴ constant acceleration, find⁵ how long the take-off run lasts. Hence calculate⁶ the acceleration.

'The fact that nations agree to follow international law **demonstrates**⁷ that we can **identify**⁸ ideals that are trans-national and trans-cultural.' How far is this statement true? Critically **analyse** any recent event which **supports** or **challenges**⁹ the statement.

Examine¹⁰ how industrial growth has **affected** any two developing countries. **Provide**¹¹ statistical evidence where necessary and **include** a discussion of likely future trends.

which are part of/included in ² organise and do ³ draw something in order to explain something ⁴ accepting something to be true ⁵ discover by calculating (see 6) ⁶ judge the number or amount of something by adding, multiplying, subtracting or dividing numbers ⁷ shows, makes clear ⁸ recognise someone or something and say or prove who or what they are
 questions whether something is true ¹⁰ look at or consider carefully and in detail ¹¹ give

B More key verbs

These extracts from academic books contain more key verbs.

In **developing** methods to explain the significance of health status measures, one can **classify**¹ ways of **establishing**² quality of life into two main types.

The length of time spent on the tasks may account for³ the decrease in motivation which was seen⁴ in many of the participants.

The data **presented**⁵ in Chapter 3 **showed**⁶ that the age of the subjects was not the main factor.

Political theory **attempts**⁷ to build bridges between different schools of political thought.

¹ divide things into groups according to their type ² discovering or getting proof of ³ explain ⁴ see is often used in the passive in academic style ⁵ given ⁶ proved ⁷ tries

C Noun forms of key verbs

In academic style, noun forms of key verbs are often used instead of the verbs.

key verb	verb + noun form of key verb	example
explain	give/provide/offer an explanation (of/for)	The model provides an explanation for the differences between the two sets of data.
explore	undertake / carry out an exploration (of)	Kumar undertook an exploration of music genius.
emphasise	place/put emphasis (on)	The hospital puts a lot of emphasis on training.
describe	give/provide a description (of)	The book gives a description of modern Europe.
affect	have an effect on	Climate change has an effect on sea levels.
prove	offer/provide proof (that)	This research offers proof that bees are on the decline.

Common, Mistake

Notice the difference in spelling between the verb *affect* and the noun *effect*. Don't confuse them. The verb **to effect** means to make something happen. The invention of the world wide web **effected** a transformation in global communications.



Exercises

3.1 Match the verbs from A in the box on the left with their synonyms in the box on	ı the right
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affect attempt calculate challenge demonstrate identify include investigate provide compute distinguish give influence involve question show study try

3.2	Complete	the sentences	with the corre	ct form of verl	os from B opposite
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1	1 As canfrom Table II, participati	on figures have been steadily falling since 1970.
2	2 Different authors havefor the	President's actions in different ways.
3	3 Mendel attempted to devise a system for	the many different types of pea plant that
	he grew.	
4	4 It is often most effective toyou	r data in a chart or table.
5	5 The data we have collectedtha	t there has been a downward trend with regard to
	job satisfaction over the last 50 years.	
6	6 The aim of the research is toa	new software application which will help aviation
	engineers design more sophisticated aircraft.	
7	7 The archaeologists should be able to use carl	oon dating techniques toexactly how
	old the bones are.	
8	8 Charles Darwinto explain the ϵ	xistence of different species in terms of evolution.

3.3 Explain the difference in meaning between each pair of sentences.

- 1 A Greig's article supports Park's theory.
- 2 A Describe the new tax regulations.
- 3 A Lodhi provides new data.
- 4 A Titova conducted four sets of experiments.
- 5 A Lee established why such changes occur.
- 6 A Okaz assumed that the data were reliable.
- 7 A Illustrate the magnitude of the deceleration.
- 8 A The events effected economic development.
- B Greig's article challenges Park's theory.
- B Discuss the new tax regulations.
- B Lodhi considers new data.
- B Titova examined four sets of experiments.
- B Lee investigated why such changes occur.
- B Okaz proved that the data were reliable.
- B Find the magnitude of the deceleration.
- B The events affected economic development.

3.4 Rewrite the underlined verbs using nouns from the box.

description emphasis explanation exploration

3.5 Complete the phrases with the correct noun forms of the verbs. Use a dictionary if necessary.

- 5 attempt = make an _____to/at
- 6 classify = make, provide a _____ of

Erikson's (2005) book ¹explains the changing patterns of educational achievement in children of poorer families. She ²explores the relationship between income, family background and achievement at school and in further education. The book ³describes a study carried out in 12 inner-city neighbourhoods. Erikson's research ⁴emphasises the importance of support within the home.

Over to you

Using the tasks in A as a model, prepare some assignment topics for students studying any subject that you are familiar with.

4

Key adjectives

For any key adjective it is useful to note (a) whether it is typically followed by a specific preposition, (b) what nouns it typically collocates with, (c) whether it has any antonyms (adjectives of opposite meaning) and (d) whether it has any related nouns.

A

Adjectives and prepositions

Here are some extracts from academic texts, with adjectives followed by to or of.

Language development is conceived as **relative**¹ **to** one's own past performance, or relative to that of others.

Some of the responses to the questionnaire were **specific**⁴ **to** young male respondents. Others were **common to** all the respondents.

How can we make science **relevant**² **to** environmental policy? Poor communication between scientists and politicians is **characteristic**³ **of** the situation today.

We need to plan technologies which are **appropriate**⁵ **to** the needs of small farmers. It was **typical of** the farmers in the study that they had a negative attitude to technology.

¹ true to a particular degree when it is being compared with other things connected with what is happening or being discussed ² connected with what is happening or being discussed ³ typical of ⁴ only found in ⁵ suitable or right for a particular situation or occasion

В

Some key adjectives and their typical noun collocates

There was an **apparent**¹ discrepancy between the two sets of results.

We noted a **potential**² problem with the experimental design which we had to deal with first.

The **principal**³ cause of the failure was a sudden temperature change.

The research used a **rigorous**⁴ methodology which had been tested on many occasions.

¹ seeming to exist or be true ² possible when the necessary conditions exist ³ first in order of importance ⁴ careful to look at or consider every part of something to make certain it is correct

C

Adjectives and their opposites

Each sentence in this text on drug abuse contains a pair of adjectives which are opposites.

We cannot discuss drug abuse as an **abstract**¹ problem without considering **concrete**² examples of abuse and their social consequences. Abuse is rarely a **simple** issue; it usually results from a **complex** set of circumstances. Both **quantitative**³ and **qualitative**⁴ research is necessary to gain a full picture of the situation. By combining research methods, we may obtain an **accurate** picture of the causes and results of abuse, in contrast with the **inaccurate** assessments which often result from purely quantitative studies. A **significant**⁵ amount of fear and prejudice surrounds the notion of abuse, and the media have a role which is also not **insignificant** in promoting such fears. The dissertation concludes that **rough**⁶ estimates of the number of drug addicts need to be made more **precise** by properly defining addiction.

existing only as an idea, not as a material object
 existing in a form that can be seen or felt
 using or based on numbers and statistics
 using non-number-based methods such as interviews, focus groups, etc.
 important or noticeable
 fairly correct but not exact or detailed

D

Nouns related to adjectives

Often in academic style, a noun form of the key adjective is used.

I admire her **simple** style. I admire the **simplicity** of her style.

These statistics are less **relevant**. These statistics have less **relevance**.

16



Exercises

4.1 Use the information in A opposite to correct the mistakes with prepositions in the sentences.

- 1 A lengthy discussion of the advantages of solar power is not relevant with this essay topic.
- 2 It is typical to the disease for it to start with an itchy rash.
- 3 This methodology is not appropriate about the kind of research you are planning.
- 4 The use of original metaphors is characteristic from the writer's style.
- 5 Relative with previous explanations, this theory is quite persuasive.
- 6 Dark hair and eyes are common for all people from the region.

4.2 Complete the sentences with adjective and noun collocates from B opposite.

- 1 There is anin your figures.
- 2 Management's refusal to listen to the workers' demands was the ______ of the riots.
- 3 Lamaque devised a _____ for doing research in the field.
- 4 We spotted a _____ with our procedure and so we changed it in two areas.

4.3 Replace the underlined adjectives with their opposites.

- 1 Karlsson checked the figures and agreed with me that they were accurate.
- 2 The solution to the problem is a simple one.
- 3 Make <u>rough</u> calculations before you begin to write up your results.
- 4 The army played <u>a significant</u> role in events.
- 5 Hernandez prefers to discuss ideas in <u>abstract</u> terms.
- 6 Volkova's article reports on a fascinating piece of <u>quantitative</u> research.

4.4 Complete the sentences with adjectives from the box.

	complex potential rigorous specific rough qualitative
1	The plant is difficult to grow and needs veryconditions to survive.
2	His tutor was critical of his work for not beingenough.
3	In the past the northern tribes looked on the tribes of the south asenemies.
4	We chose aapproach to our research and interviewed individuals personally.
5	Aset of circumstances led to a civil war in 1897.
6	Theestimates that we made turned out to be surprisingly accurate.

4.5 Complete the table with nouns formed from the adjectives. Use a dictionary if necessary.

adjective	noun	adjective	noun
appropriate		complex	
significant		accurate	
precise		rigorous	

4.6 Rewrite the underlined words using nouns formed from the adjectives.

- 1 The professor praised Carla for her rigorous work. The professor praised Carla for the rigour of her work.
- 2 The slight discrepancy in the two sets of figures is not significant.
- 3 The complex language used by the poet makes his work difficult to interpret.
- 4 You must be precise when taking measurements.
- 5 The later part of the book <u>will be more relevant</u> for next year's course.
- 6 The tutor was pleased with how simple and appropriate our research proposal was.

Over to you

When you come across a key adjective from this unit in your reading, note it down in a phrase so you build up a set of useful phrases using the adjective.

5

Key adverbs

A Adverbs that compare

adverb	meaning	example
comparatively/relatively	in comparison with something else	Our sample was relatively/comparatively small.
especially/particularly	more than usual	The process was not especially/particularly difficult.
specially	for a specific purpose	We used specially designed equipment.
somewhat (opposite: considerably)	(slightly formal) rather, to some degree	The second experiment involved a somewhat/considerably larger sample.
primarily	mainly	The article is primarily concerned with the effects of pesticides.
mostly/largely	almost completely (but not totally so)	The project was largely/mostly successful.
directly (opposite: indirectly)	without anything else being involved	The illness is (in)directly linked to poor housing.

B Adverbs that relate to numbers or time

There are **approximately** 20,000 pairs of birds on the island. [around, about]

The figure of 17% is **roughly** equivalent to the decline in population in the north of the country from 1980 to 2010. [more or less]

The phenomenon occurs relatively **frequently/infrequently**. [often/not often]

We **eventually** obtained the figures we were hoping for, which were **precisely** the same as those found by Rosenberg (2008). [in the end, after some time; completely and accurately]

Ultimately, we plan to repeat the study using **exactly** the same number of informants. [finally, after other things have been completed. *Exactly* is similar to *precisely*, but is more often used to refer to numbers]

The team **initially** failed to establish the cause of the death of the whales. [in the early stages]

Common. Mistake

Eventually means 'after some time'. Use finally or lastly when beginning the last point in a discussion. Finally/Lastly, let us consider the impact of tourism on local cultures.

C Adverbs that relate to how things are stated

Hall's 1968 book **essentially**¹ differs from his earlier work in that it is **explicitly**² critical of the government of the time. **Generally**³ his disapproval of government was only conveyed **implicitly**⁴ in his previous works, but here he **specifically**⁵ condemns their handling of a number of issues. The 1968 work is more **broadly**⁶ in line with other political commentaries of the period.

- ¹ referring to its main characteristics; also **basically** ² openly ³ usually, also **on the whole**
- ⁴ not directly, suggested or implied rather than stated; opposite of **explicitly**
- ⁵ in particular; opposite of **generally** ⁶ in general, without considering minor details

Adverbs that restrict or limit

merely The medication will **merely** make the symptoms bearable; it will not cure the disease. [exactly and nothing more]

simply Note that **simply** can have different meanings. To **put it simply**, the risks of this approach would seem to outweigh its advantages. [plainly] The book presents difficult ideas **simply**, in a way appropriate for the non-expert. [easily] The exam results were **simply** dreadful. [without doubt]

solely Certain events are **solely** confined to our planet. [only, involving nothing else]

Exercises

5.1 Use the information in A and B opposite to explain the difference in meaning between each pair of sentences.

- 1 A Heinrich's experiments were mostly criticised on ethical grounds.
 - B Heinrich's experiments were particularly criticised on ethical grounds.
- 2 A The results were somewhat surprising given the circumstances.
 - B The results were especially surprising given the circumstances.
- 3 A First-year students are directly affected by the new rules relating to tuition fees.
 - B First-year students are particularly affected by the new rules relating to tuition fees.
- 4 A The study was primarily concerned with urban alienation.
 - B The study was ultimately concerned with urban alienation.
- 5 A The team eventually obtained unpredicted results.
 - B The team frequently obtained unpredicted results.

5.2 Use the information in C and D opposite to choose the best adverbs to complete the text.

What you are saying is 1 essentially / merely true. To put it 2 basically / simply, there is 3 implicitly / basically no significant difference between the two writers' theories. However, one of them writes in a 4 simply / solely dreadful style while the other has a style that is 5 eventually / generally very impressive.

5.3 Replace the underlined adverbs with their opposites from the box. Use each adverb in the box only once.

roughly generally exactly indirectly implicitly eventually infrequently precisely

- 1 There were <u>roughly</u> 350 people living in the village in 1958.
- 2 Floods happen frequently in this part of the country.
- 3 We investigated the problem and <u>initially</u> found some small errors in the calculations.
- 4 The temperature was <u>exactly</u> half a degree lower than the average.
- 5 Singh (1998) explicitly criticises existing theories of economic growth.
- 6 Soil erosion is specifically caused by water or wind.
- 7 The new results were broadly the same as the previous ones.
- 8 The disease is <u>directly</u> linked to environmental factors.

5.4 Underline the adverbs in the texts. Then answer the questions.

Marine conservationists are <u>currently</u> attempting to save the world's coral reefs. One plan is to literally glue the damaged reefs back together, using coral artificially raised in underwater laboratories. Reefs are increasingly under attack from human activity as well as from events which occur naturally, such as hurricanes and tsunamis. A recent UN report warns that 30% of the world's coral reefs have been completely destroyed or are severely damaged.

Scientists have recently discovered that ants can remember how many steps they have taken. By carefully shortening or lengthening the legs of ants, the team observed that short-legged ants apparently became lost and could not easily find their way home to the nest. Similarly, ants with longer legs typically travelled 50% further than they needed to and were also temporarily unable to find the nest. It seems ants can definitely count their steps.

- 1 Which adverb means 'in the same way'?
- 2 Find two pairs of adverbs that mean the opposite of each other.
- 3 Which adverb means 'a short time ago'?
- 4 Which adverb means 'more and more'?
- 5 Which adverb could be substituted by seriously?
- 6 Which adverb means 'for a limited time'?

Over to you

Find an interesting article in your discipline and underline all the key adverbs. Then check that you understand their meaning.